WELL SCHEMATIC

Operator: Chaparral Energy,L.L.C.
Completion Date: 06/21/1964

Well Name & No.: NBU #6-W23
890 ft. { N / S } line and 730 ft. from { E / W }
SW ¼ Section 1 Township 27N Range 05E

Surface Elevation: 1130.26'

Tubing Size: 2 3/8"
Weight: 4.00
Length: 2861

Packer Type: 3 1/2" 1X Arrow
Set at: 2886 - 2892. OK

2943 - 2918 interval

Formation(s) perforated above packer: N/A to N/A; N/A to N/A

Open hole below production Casing from 2918 to 3001
Formation(s) present in open hole: Burbank

SURFACE CASING DATA
Hole size: 9 1/2 inches
Casing size: 8 5/8 inches
Weight: 32 lb/ft.
Length: 105 ft.
Cement type: Class N/A
Amount: 95 sx.
Additives: N/A
Casing set at: 113 ft.
Top of cement: Surface ft.
Method of determination NA

1.18 x 95 x 11.5608 = 1296' TOC = Surf OK

Liner: Hole size - 6-1/8" Csg size - 3-1/2"
Weight - 9.91 lb/ft Length - 2,909 ft Set @ 2,909 ft
50sx reg cmt w/2% gel @ 320' to Surf

From 320'
1.36 x 50 x 7.2568 = 493

TOC = Surf

For Cement from 2909 to 1784 see attached email & GR/CBL

8-5/8" @113'

Cmt @ 319' (105 sx)

TOC @ 1775

3-1/2"@ 2909

4-1/2" @2918

INTERMEDIATE LINER/CASING
Hole size: inches
Casing size: inches
Weight: lb/ft.
Length: ft.
Cement type: Class
Amount: sx.
Additives:
Casing set at: ft.
Top of cement: ft.
Method of determination

PRODUCTION CASING DATA
Hole size: 6-1/8 inches
Casing size: 4 1/2 inches
Weight: 9.5 lb/ft.
Length: 2918 ft.
Cement type: Class N/A
Amount: 75+ 105 sx.
Additives: 30% Diacel D & 2% CC
Casing set at: 2918 ft.
Top of cement: 1775/surf ft.
Method of determination NA

From 3179 : 3.12 x 105 x 10.0192 = 3499 TOC = surf OK

From 2918 : 3.12 x 75 x 10.0192 = 1951

TOC = 2918 - 1951 = 967' OK

PBTD:
TD: 3001'

NOTE: All depths are to be from *ground level*. If KB depths are used, make notations on diagram and height of KB *above ground level*.

Chaparral ENERGY

VERTICAL Schematic

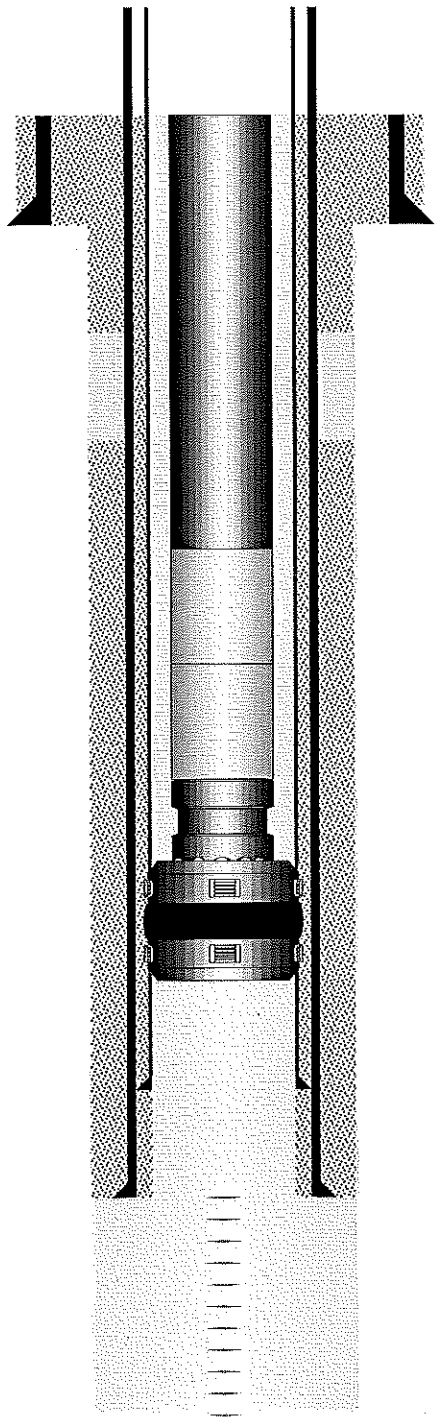
NBU #6-23 (INJ)

API/UWI	Enertia ID#	County	State/Pro...	Surface Legal Location	Well Config	Well Status	District	Field Name
35113080320000	5255.0063.001	OSAGE	OK	Sec. 1-27N-05E	VERTICAL	PRODUCING	SHIDLER	

Ground Elevation (ft)	KB-Ground Distance (ft)	Spud Date	Rig Release Date	On Production Date	Total Depth All (TVD)
1,130.00	8.00	5/18/1964			

VERTICAL - Original Hole, 2/24/2016 10:50:34 AM

TVD (ftKB) | Vertical schematic (actual)



Wellbore

Wellbore Name	Max TVD (ftKB)	Max DLS (°/100ft)
Original Hole		

Section Des	Size (in)	Act Top (ftKB)	Act Btm (ftKB)	Act Btm (TVD) (ftKB)
Surface	9 1/2	8	113	
Production	6 1/8	113	2,954	
Openhole	6 1/8	2,954	3,001	

Casing Strings

Csg Des	Set Depth (ftKB)	OD Nom Max (in)	ID Nom Min (in)	Wt/Len (lb/ft)	Grade	Len (ft)
Surface	113	8 5/8	7.921	32.00	J-55	105.00
Liner	2,909	3 1/2		9.91	J-55	2,909.00
Production	2,918	4 1/2	4.09	9.50	J-55	2,918.00

Tubing

Tubing Description	Set Depth...	OD Nom...	Wt (lb/ft)	Grade	Wellbore
Tubing - Production	2,892	3 1/2	4.00	J-55	Original Hole

Icon	Item Des	Jts	OD (in)	Len (ft)	Top (ftKB)	Btm (ftKB)
	Tubing	89	2 3/8	2,865.10	7.9	2,873.0
	Pup Joint	1	2 3/8	10.00	2,873.0	2,883.0
	Pup Joint	1	2 3/8	2.00	2,883.0	2,885.0
	On-Off Tool	1	2 3/8	1.00	2,885.0	2,886.0
	Packer	1	3 1/2	6.00	2,886.0	2,892.0

Cement

Des	String	Fluid	Class	Amo...	Comment	Top...	Btm...
Production Casing Cement	Production, 2,918ftKB	Lead		75		1,775	2,918
Surface Casing Cement	Surface, 113ftKB	Lead		95		8	113

Tingey, Christopher

From: Rosalind Karlin <rosalind.karlin@chaparralenergy.com>
Sent: Wednesday, February 24, 2016 4:23 PM
To: Tingey, Christopher
Subject: FW: Message from "RNP0026736D85B4"
Attachments: 20160222164609445.pdf; NBU 6-W23.pdf; NBU #6-W23 VERTICAL Schematic.pdf

Chris,

Please see the attached, and the below notes from Greg.

Thanks,

Rosalind

-----Original Message-----
From: Greg Shelly
Sent: Monday, February 22, 2016 5:56 PM
To: Rosalind Karlin
Cc: Kevin Turner
Subject: FW: Message from "RNP0026736D85B4"

Roz,

Regarding the 6-23W questions from Chris,

Per the attached, Elite Wireline RIH and found bottom of 4-1/2" at 2918' with CCL in 2006. With this being the case, our packer set at 2,886' is only 32' apart and should be in compliance.

TOC(s) -

4-1/2" stage 1 - 75 sx w30% Diacel D. Note in well file states TOC at 1775' by temp survey. This note dated 9-11-06. That should satisfy the rule of 250' of cement above inj zone top 4-1/2" stage 2 - Per the attached morning reports from Aug/Sept. 2006, they ran 1" between 4-1/2" & 8-5/8" to 320' and cemented to surface. (USDW would be protected). USDW at ~220'

3-1/2" liner - Per GR/CBL ran 10-20-14 from 2900' - surface by Elite Wireline, indicates good bond from 2900' - 1784' and good bond 240' - surface.(log attached).
Let's round table on Wed. before we send back to Chris. We can also call him if you want.

I have also corrected the WBD in well view.

Thanks,

-----Original Message-----
From: scan@chaparralenergy.com [mailto:scan@chaparralenergy.com]
Sent: Monday, February 22, 2016 3:46 PM
To: Greg Shelly